**The Art and Practice in Evaluation of Environmental Performance**



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**Course Objective**

* Providing a better understanding of an organization’s impacts on the environment;
* Providing a basis for benchmarking management, operational and environmental performance;
* Provide identifying opportunities for improving efficiency of energy and resource usage;
* Determining whether environmental objectives and targets are being met;
* Demonstrating compliance with regulations;
* Determining proper allocation of resources;
* Increasing the awareness of employees; and
* Improving community and customer relations.
* Describe the key steps in an EPE model
* Explain the role of EPE in developing, maintaining and improving an EMS
* Identify a range of performance indicators
* Select suitable indicators to track environmental performance

**Target Audience**

* Environmental Management System Representatives (EMRs), Pollution Control Officers, EMS Process Owners.
* Those who are tasked to assess EMS implementation in their own companies or their suppliers.
* Environmental specialist and researchers.Purchasing and supply chain managersProject managers

**Course Outline**

**Day 1: Definition of Environmental Performance Evaluation (EPE) System**

* **ISO14031 and its relation to other standards**
* **General Indicators for achieving specific targets**
* Compliance with laws
* Benchmarking
* Cleaner Production
* Energy Efficiency
* **Analysis of enterprise activities and determination of potential impacts and risks**
* Definition of environmental policies
* Suggestion of necessary actions and adjustments
* Predisposition of operating and monitoring procedures
* Design related risks
* Operation related risks
* Disposal related risks

**Day 2: Management Performance Indicators (MPIs)**

* **Management commitment**
* Organization of environmental department
* Budget allocation
* Incentives
* Construction of reporting systems integrated with managerial direction
* **Environmental policy**
* Objectives and targets
* Preventive and corrective actions
* Emergency procedures
* Training
* Document control
* Continuous improvement
* Contractor specifications and selection criteria
* **Self monitoring plan – Monitoring Potential Risks**
* Monitoring health and safety - Health and Safety Plan
* Monitoring Emissions
* Monitoring Hazardous materials and wastes

**Day 3 Operation Performance Indicators (OPIs)**

* **Resource consumption**
* Materials
* Energy
* Water
* **Efficiency of operation**
* Operation control
* Maintenance
* BAT
* **Sustainability**
* Sustainable inputs
* Cleaner production
* Waste reduction, recycling and reuse

**Day 4 Environmental Conditions Indicators (ECIs)**

* **Global warming potential**
* Fuel and electricity consumption
* Use of emission factors
* Emission of GHGs
* LCA approach
* **Emissions to air**
* Main pollutants
* Sensitivity of location
* **Wastes**
* Type of waste Hazardous/non-hazardous
* Recycling/re-use
* Management, treatment and disposal

**Day 5**

* **1-Benefits or positive effects with improved environmental performance**
* **2- Case Study - Development of Environmental Performance Indicators**
* Practical skills in designing financial models using Excel
* The design of financial models for forecasting and decision-making
* **The Feature Of Asia Master Training And Development Center**
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